Performance Data Sheet

AWF5519EXN

General Information

Model	AWF5519EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4600	4030					
	Watts	736	736					
	Amps	3.38	3.36					
	Lb/h	59.5	54.1					
-10	Btu/h	5570	4880	4200				
	Watts	805	809	808				
	Amps	3.66	3.67	3.65				
	Lb/h	71.5	65.1	58.4				
-5	Btu/h	6760	5940	5140	4350			
	Watts	870	881	885	882			
	Amps	3.93	3.97	3.98	3.96			
	Lb/h	86.2	78.8	71.0	62.7			
0	Btu/h	8170	7230	6300	5380	4460		
	Watts	931	949	961	964	959		
	Amps	4.18	4.25	4.29	4.31	4.28		
	Lb/h	103	95.1	86.4	77.1	66.8		
5	Btu/h	9800	8730	7670	6620	5570		
	Watts	986	1010	1030	1050	1050		
	Amps	4.40	4.52	4.60	4.65	4.66		
	Lb/h	123	114	104	94.0	82.8		
10	Btu/h	11700	10400	9250	8060	6870	5680	4480
	Watts	1030	1070	1100	1120	1140	1140	1120
	Amps	4.61	4.77	4.89	4.98	5.03	5.03	4.98
	Lb/h	146	135	125	114	101	87.9	72.9
15	Btu/h	13700	12400	11000	9690	8360	7030	5690
	Watts	1080	1130	1170	1200	1220	1230	1230
	Amps	4.78	4.99	5.17	5.31	5.40	5.44	5.43
	Lb/h	170	159	148	136	122	108	92.1
20	Btu/h	16000	14500	13000	11500	10100	8570	7090
	Watts	1110	1170	1230	1270	1310	1330	1340
	Amps	4.92	5.19	5.42	5.62	5.76	5.85	5.89
	Lb/h	197	185	173	160	146	131	114

25	Btu/h	18500	16800	15200	13600	11900	10300	8660
	Watts	1140	1210	1280	1340	1390	1430	1450
	Amps	5.02	5.36	5.65	5.91	6.11	6.25	6.34
	Lb/h	226	214	201	187	172	156	138
30	Btu/h	21200	19400	17600	15800	14000	12200	10400
	Watts	1150	1250	1330	1410	1470	1520	1550
	Amps	5.09	5.49	5.86	6.17	6.44	6.65	6.79
	Lb/h	258	245	231	216	200	183	164
35	Btu/h	24000	22100	20100	18200	16200	14300	12300
	Watts	1160	1270	1370	1460	1540	1610	1660
	Amps	5.11	5.59	6.03	6.41	6.75	7.02	7.23
	Lb/h	291	277	263	248	231	213	193
40	Btu/h	27100	25000	22900	20800	18700	16600	14400
	Watts	1150	1280	1400	1520	1610	1700	1770
	Amps	5.08	5.64	6.16	6.63	7.03	7.38	7.66
	Lb/h	327	312	297	281	264	245	225
45	Btu/h	30400	28100	25800	23600	21300	19000	16700
	Watts	1130	1280	1430	1560	1680	1780	1870
	Amps	5.01	5.66	6.26	6.81	7.29	7.72	8.08
	Lb/h	364	349	333	317	299	279	258
50	Btu/h	33900	31400	29000	26500	24100	21600	19100
	Watts	1100	1280	1440	1590	1730	1860	1960
	Amps	4.88	5.62	6.31	6.95	7.52	8.03	8.47
	Lb/h	404	388	372	354	336	315	293
55	Btu/h	37500	34900	32300	29600	27000	24400	21700
	Watts	1050	1250	1440	1620	1780	1930	2060
	Amps	4.69	5.53	6.32	7.05	7.72	8.32	8.84
	Lb/h	445	429	412	394	374	354	331

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.668374E+04	7.379875E+02	3.225496E+00	1.895464E+02
C2	5.078373E+02	-4.895318E+00	-2.932105E-02	4.929957E+00
C3	-1.224826E+02	1.129078E+00	9.764416E-03	-1.605989E+00
C4	5.110062E+00	-3.485565E-01	-1.368622E-03	4.417383E-02
C5	-2.496825E+00	2.414485E-01	1.144516E-03	-1.217020E-02
C6	2.591362E-01	3.628040E-02	9.640655E-05	1.015850E-02
C7	-3.949801E-03	-1.106861E-03	-4.692894E-06	-9.569999E-05
C8	-9.020331E-03	2.990607E-03	1.159990E-05	8.052154E-05
C9	-5.334118E-04	-4.400855E-04	-2.262221E-06	-3.799532E-05
C10	-7.256921E-04	-2.530694E-04	-8.713095E-07	-4.414288E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature